NC/QC/YPD/SIP-05/2017-18/KL-WMM2

Date: 24-03-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

AE

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100 -
45.00	**98.30**	95-100
26.50	**---**	-
22.40	**76.45**	60-80
11.20	**59.62**	40-60
4.75	**33.25**	25-40
2.36	**25.62**	15-30
0.600	**19.12**	8-22
0.075	**3.12**	0-5

K. R
KIRAN. R
M.E, (Civil-Engg)

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Proprietor

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Date: 24-03-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.35 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**24.13 %**	Not more than 35.0 %
3.	Water absorption, %	**0.39 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/YPD/SIP-05/2017-18/KL-WMM3 Date: 28-03-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

AE

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.60**	95-100
26.50	**---**	-
22.40	**76.40**	60-80
11.20	**59.35**	40-60
4.75	**35.16**	25-40
2.36	**26.25**	15-30
0.600	**19.30**	8-22
0.075	**3.80**	0-5

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Newzen Consultants Bangalore

Date: 28-03-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**21.80 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**23.43 %**	Not more than 35.0 %
3.	Water absorption, %	**0.52 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Newzen Consultants Bangalore

NC/QC/YPD/SIP-05/2017-18/KL-WMM4

Date: 30-03-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100 -
45.00	**96.60**	95-100
26.50	**---**	-
22.40	**76.40**	60-80
11.20	**59.15**	40-60
4.75	**29.60**	25-40
2.36	**23.26**	15-30
0.600	**16.82**	8-22
0.075	**3.56**	0-5

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Newzen Consultants Bangalore

Date: 30-03-2017

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**19.80 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**22.45 %**	Not more than 35.0 %
3.	Water absorption, %	**0.64 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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Newzen Consultants Bangalore

NC/QC/YPD/SIP-05/2018-19/KL-C3

Date: 03-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**262 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.43 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**3.26 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**30.16 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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Newzen Consultants Bangalore

NC/QC/YPD/SIP-05/2018-19/KL-PCC2

Date: 03-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.86**	0 -20	30- 70
10mm	**18.15**	0 -5	10- 35
4.75mm	**3.85**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.30**	60-95	75-100	85-100	
01.18	**67.45**	30-70	55-90	75-100	
600.mic	**46.32**	15-34	35-59	60-79	
300.mic	**18.35**	5-20	8-30	12-40	
150.mic	**8.76**	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-05/2018-19/KL-C4

Date: 05-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**268 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.85 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**3.33 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**30.56 N/Sq mm**	Shall not be less than 27 N/Sqmm

*As furnished by Client.
The Results relate only to the items tested.

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NC/QC/YPD/SIP-05/2018-19/KL-PCC3

Date: 05-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Road and Drain at Kogilu layout in Ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.56	0 -20	30- 70
10mm	18.15	0 -5	10- 35
4.75mm	3.40	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	87.38	60-95	75-100	85-100	
01.18	69.90	30-70	55-90	75-100	
600.mic	46.25	15-34	35-59	60-79	
300.mic	19.32	5-20	8-30	12-40	
150.mic	6.90	0-10	0-10	0-10	

*As Furnished by Client.
The Results relate only to the items tested.

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